

SR-222MKII

OPERATING INSTRUCTIONS
MODE D'EMPLOI
BETRIEBSANLEITUNG



- Read this manual before use.
- Lire cette notice avant l'utilisation.
- Vor der Verwendung diese Anleitung durchlesen.



WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

ATTENTION: Pour éviter les dangers d'électrocution ou d'incendie, ne pas exposer cet appareil à la pluie ou à l'humidité.

WARNUNG: Setzen Sie dieses Gerät zur Verhütung von Feuer- und Stromschlaggefahr weder Regen noch Feuchtigkeit aus.

We are grateful for your choice of the Sansui SR-222MKII stereo turntable. This precision instrument is designed to give you many years of superb hi-fi performance. We suggest that you read through this manual at least once for instructions on correct assembly procedures, connection with other equipment and correct operation procedures.

Contents

Precautions	4
Controls and parts callouts	6
Setting-up and connections	8
Operation	18
Some useful hints	22
Specifications	26

- The Model No. and Serial No. of your unit are shown on its back panel.
- Do not lose the Warranty Card that carries your unit's Model No. and Serial No.

For the United Kingdom only

Important

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

If the colours of the wires in the mains lead of this equipment should not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

For equipment purchased outside the U.K. with a "EUROPEAN" two-pin mains plug, the plug should be removed and connections made in accordance with the above instructions. Ensure also that the equipment is properly adjusted to 240 volts operation. If you are in any doubt, consult a qualified electrician, or our Service Agent in the U.K.

Precautions

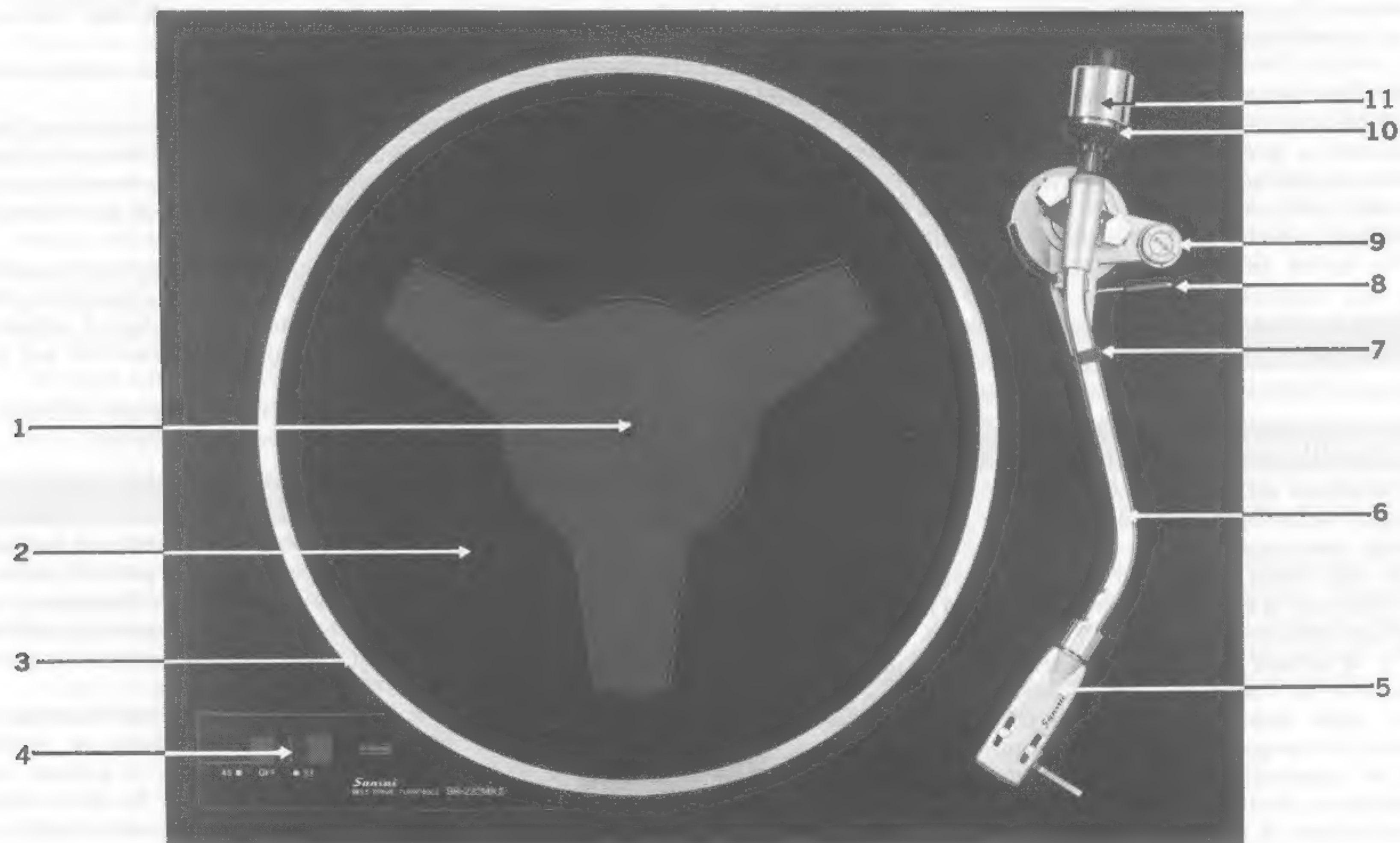
- * Avoid exposing the turntable (as well as your amplifier and other audio equipment) to rain or direct sunlight.
- * Avoid exposing the turntable to dust, excessively warm or cold temperatures.
- * Place your turntable on a solid, vibration-free surface.
- * Avoid placing your turntable on an inclined surface, otherwise incorrect stylus tracking will deteriorate overall performance. See that the surface of a record, when placed upon the platter, is strictly horizontal.
- * When cleaning the turntable base and dust cover, be sure to use a dry, soft cloth. Never use thinner or alcohol. Also take care not to accidentally apply insecticides or other volatile liquids or sprays.
- * Do not touch the power plug with wet hands, for you may be subjected to electrical shock.

Power voltage/frequency

Your turntable is adjusted in our factory to operate on the power voltage/frequency of the area where you purchased it. Therefore, should you move to an area where the voltage/frequency is different from the factory-adjusted one, you have to make the voltage/frequency changeover. Make the changeover referring to the attached voltage/frequency changeover sheet.

If, however, the area where you bought your turntable is one where users are prohibited from making such changeover, changeover is not possible. In other areas, for voltage changeover, consult with your nearest electric appliance dealer about the specific voltage adjustor you need. For frequency changeover, refer to our Service Station or dealer for the replacement capstan.

Controls and parts callouts
Liste des pièces et des commandes
Bezeichnung der Bedienungselemente



1. Center spindle
2. Rubber mat
3. Platter
4. Speed selector
5. Headshell
6. Tonearm
7. Arm rest
8. Arm lifter lever
9. Bias knob
10. Tracking-force dial
11. Main weight

1. Axe central
2. Nappe de caoutchouc
3. Plateau
4. Sélecteur de vitesse
5. Tête de pick-up
6. Bras acoustique
7. Support de bras acoustique
8. Levier élévateur de bras
9. Poignée de polarisation
10. Cadran de pression sur le sillon
11. Contrepoids principal

1. Mittelspindel
2. Gummimatte
3. Plattenteller
4. Geschwindigkeitswähler
5. Tonarmkopf
6. Tonarm
7. Armablage
8. Armheberhebel
9. Vorspannungsknopf
10. Auflagekraftskala
11. Hauptgewicht

* In order to simplify the explanation illustrations may sometimes differ from the originals.

* Pour simplifier les explications, les illustrations peuvent quelquefois être différentes des originaux.

* Um die Erläuterung zu vereinfachen, können die Abbildungen manchmal vom Original abweichen.

Setting-up and connections

This turntable is a precision instrument. To protect the delicate parts inside during shipment they are secured in place by shipping screws, or packaged separately. Remove, set up and connect these parts as follows:

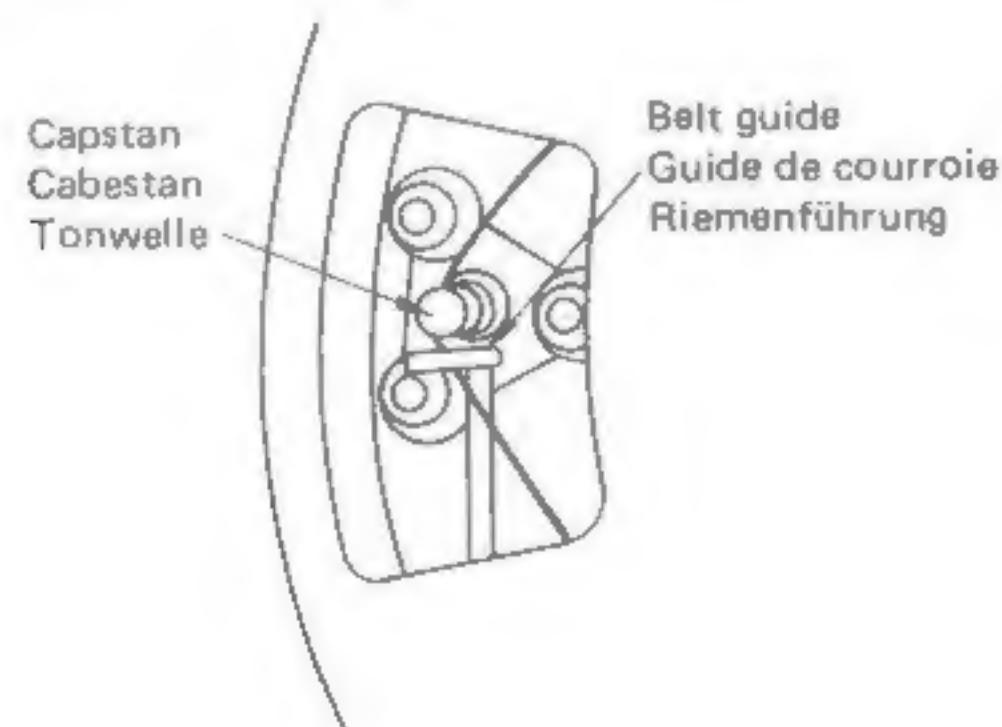
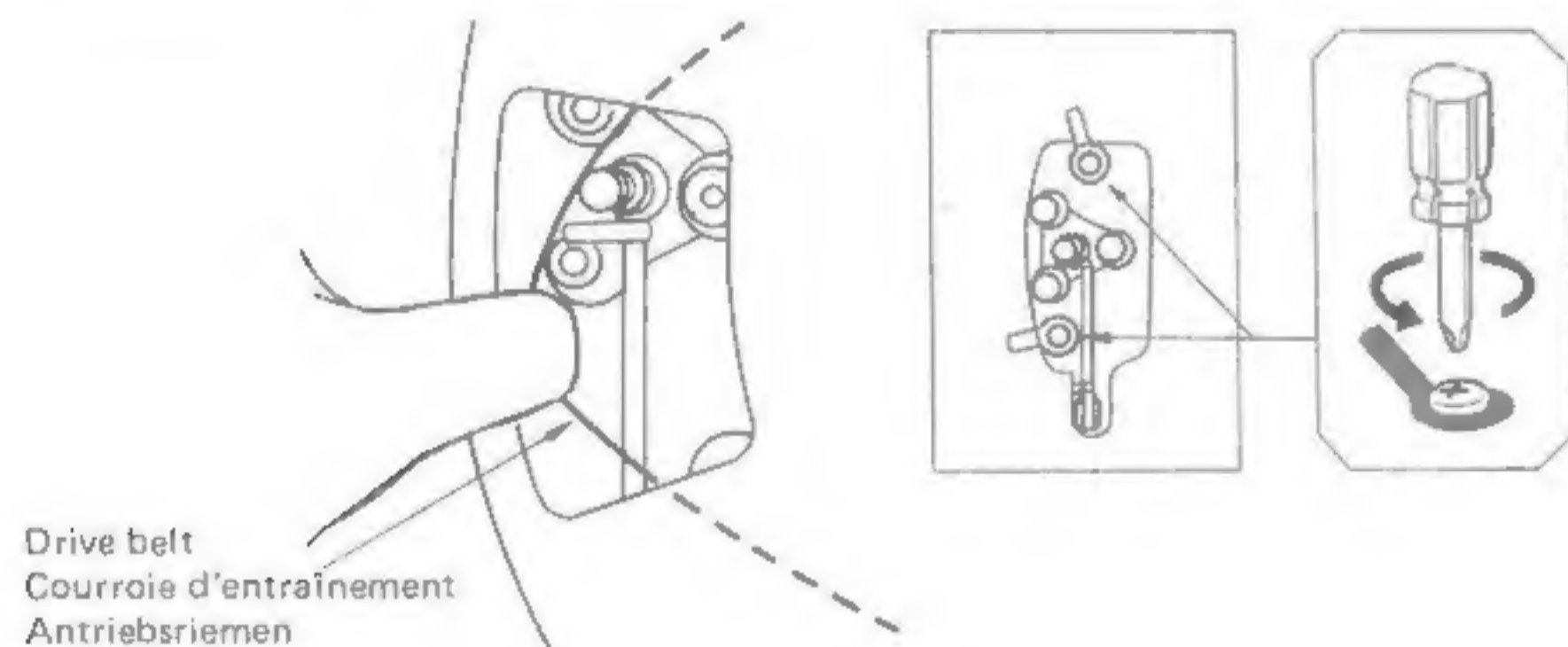
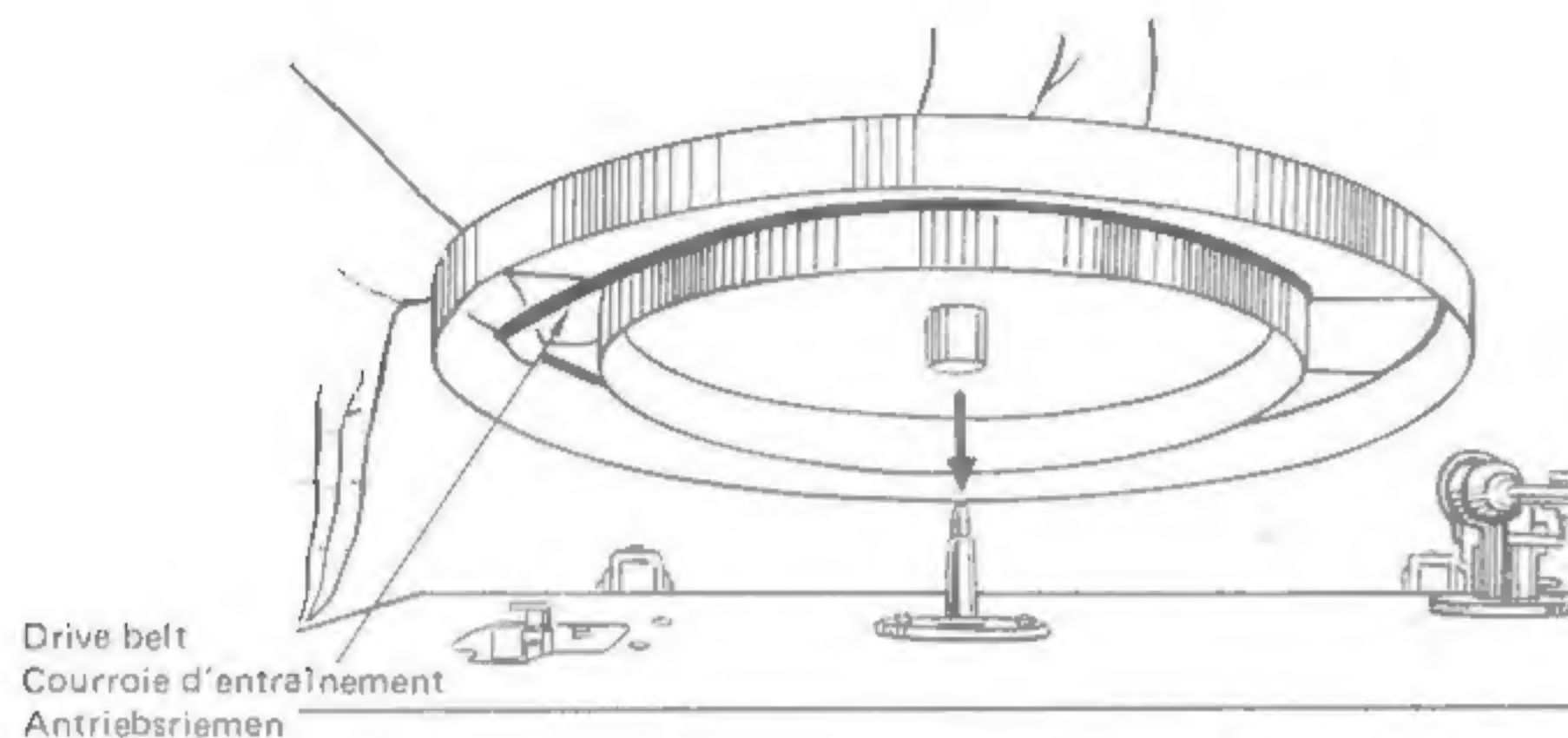
Removing shipping screws

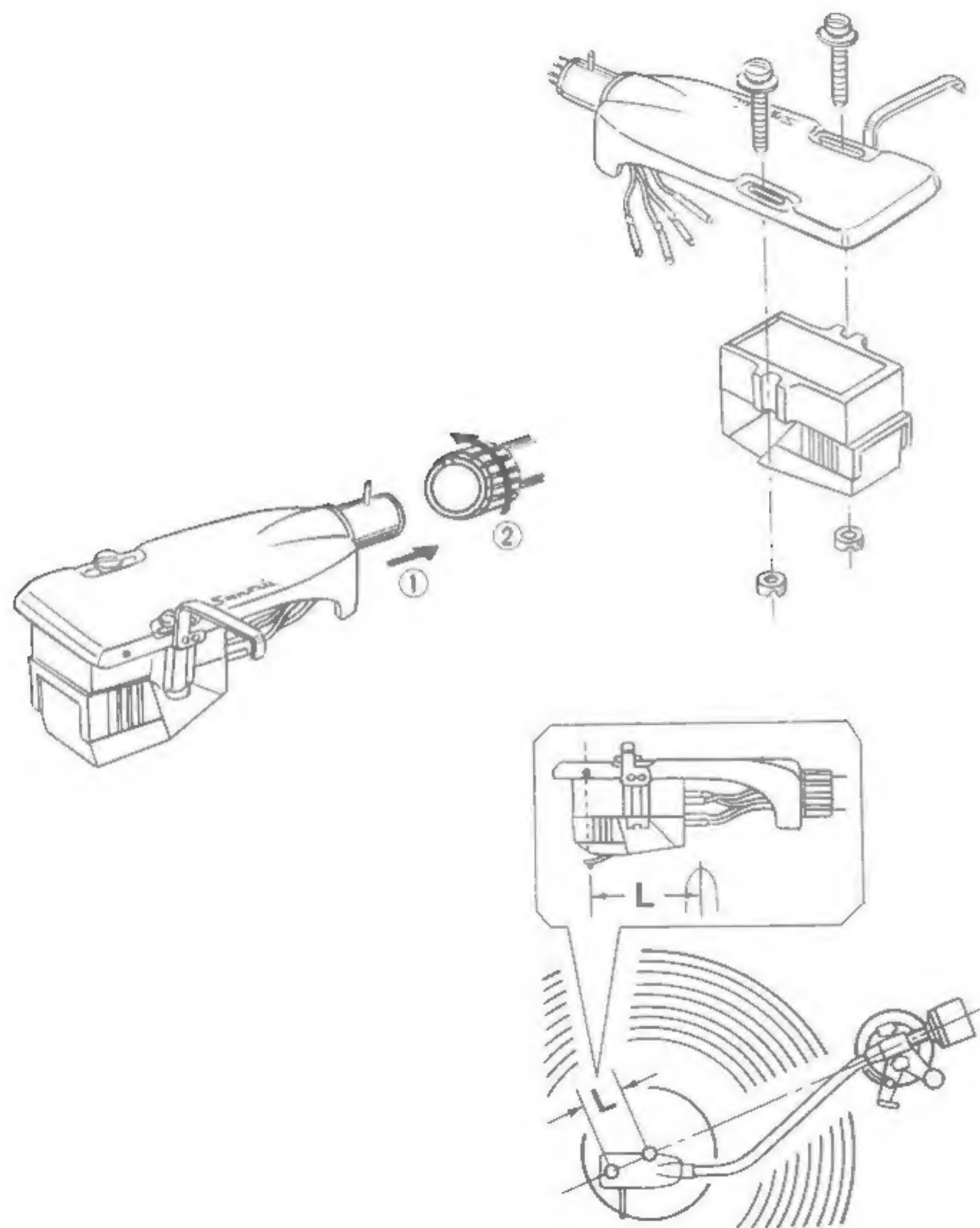
With a screwdriver, remove the two shipping screws together with the red cardboards. Keep them for possible future use; re-ship the unit only after re-securing the parts as originally shipped.

Setting up turntable

To mount the drive belt and the platter:

1. Set the speed selector to the 45 position.
 2. Mount the platter on the center spindle, pressing the drive belt to the outer rim of the platter with your thumb.
 3. Pass the drive belt between the two arms of the belt guide and hook it around the upper step of the capstan.
 4. Place the rubber mat on the platter.
- When handling the drive belt, be careful not to stain it with oil or dirt. If the drive belt is stained, wipe it clean with a soft cloth dipped in alcohol.





Depending on the sales area, your unit may come with an accessory cartridge (the Sansui SC-37). In cases like this, you need only read through the section on "Mounting headshell" on this page.

Mounting cartridge

Mount a suitable cartridge on the headshell supplied with loosely tightened screws and nuts. Then connect leads on the headshell to terminals of the cartridge. Be sure to make correct connections referring to instructions for the cartridge; leads are color-coded in the following manner:

Blue	left-channel "-" ground
White	left-channel "+" hot
Green	right-channel "-" ground
Red	right-channel "+" hot

- The loosely tightened screws should be firmly and equally secured after you have adjusted overhang.

Mounting headshell

Insert the cartridge-equipped headshell into the lock nut at the end of the tonearm. Then push it lightly in the direction of arrow ① and tighten the lock nut securely by turning it in the direction of arrow ② as shown in the illustration.

Overhang adjustments

Overhang is the distance from the center spindle to the stylus when the tonearm is closest to the center spindle, and is indicated by L in the illustration. The overhang of the tonearm of your turntable should be 17.5 mm. Loosen the screws holding the cartridge to the headshell and slide the cartridge backwards or forwards for optimum overhang adjustment. Once the overhang is set, retighten the cartridge-securing screws.

The headshell supplied features ■ small visual guide. All you have to do is adjust the position of the cartridge so that the stylus tip is positioned immediately below this guide as illustrated.

Tonearm horizontal balance Equilibrage horizontal du bras acoustique Horizontale Tonarmbalance



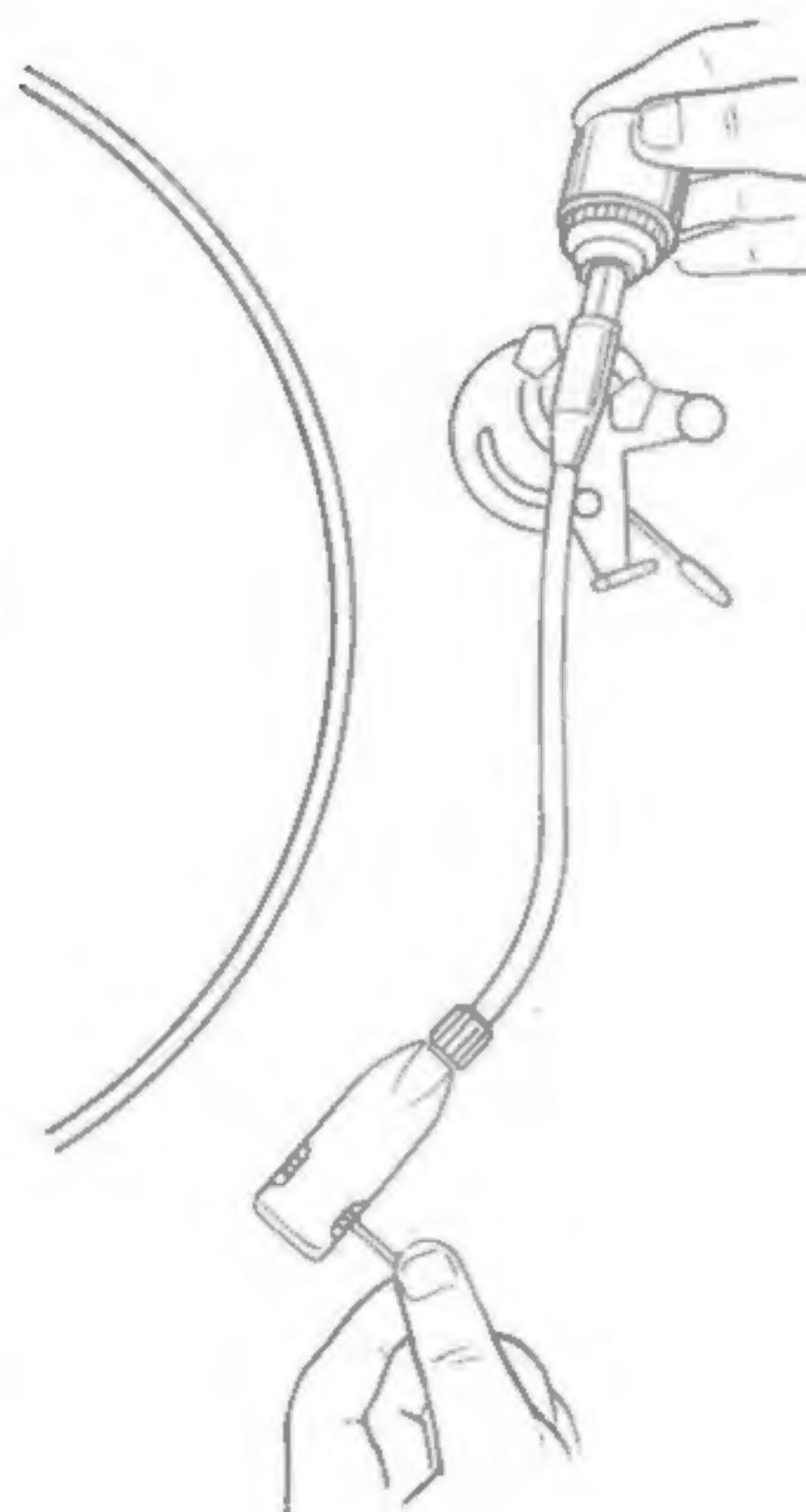
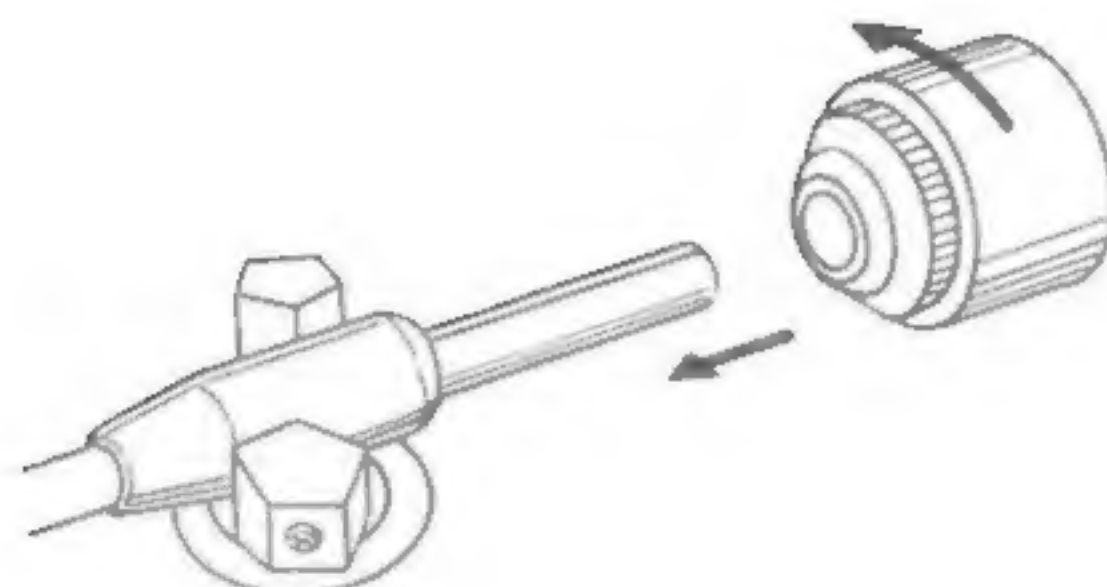
Turn main weight to right
Tourner le contrepoids principal à droite
Drehen Sie das Hauptgewicht nach rechts



Horizontal balance is achieved
L'équilibrage horizontal est réalisé
Horizontale Balance ist hergestellt



Turn main weight to left
Tourner le contrepoids principal à gauche
Drehen Sie das Hauptgewicht nach links



Mounting main weight

Fit the main weight on the weight shaft of the tonearm and pull it toward you while turning it gently to the right.

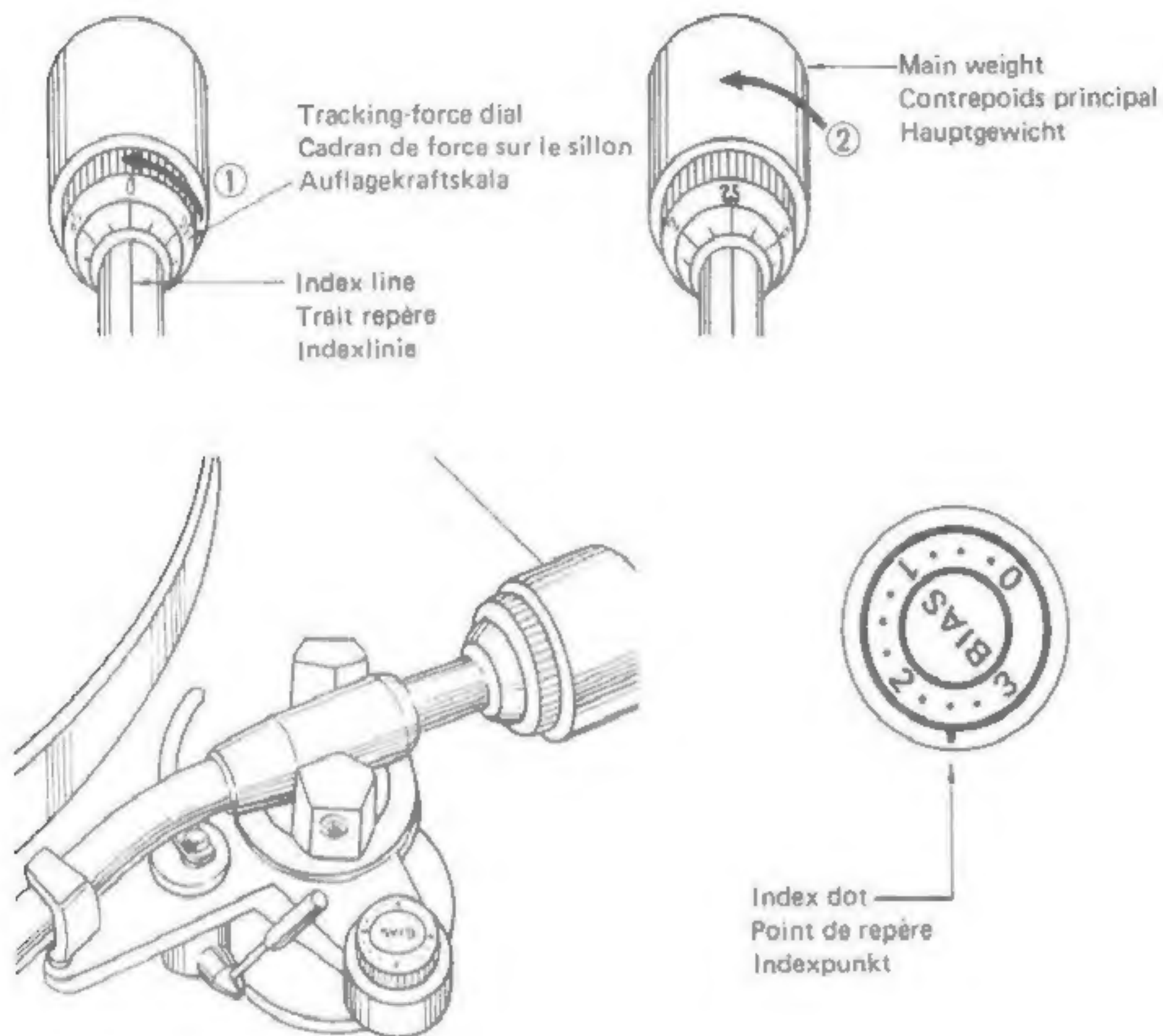
Tonearm horizontal balance

Before undertaking tracking-force adjustment, you must balance the tonearm in a perfectly horizontal plane to the motorboard to obtain a "O-gram" tracking force. Procedures are as described below:

1. Remove the stylus protector cover.
 2. Pull down the arm lifter lever.
 3. Turn the bias knob, so that the "O" mark aligns with the red index dot on the ring.
 4. By holding the headshell by its hook with your hand, move the tonearm to a place midway between the arm rest and the platter as illustrated.
 5. Turn the main weight with your other hand until the tonearm balances itself, remaining stationary and horizontal to the motorboard; if the headshell rises, move the main weight to the right (seen from behind). If it lowers, move it to the left.
 6. When the tonearm horizontal balance is achieved, return the tonearm to the arm rest and pull the arm lifter lever upward.
- Be very careful not to subject the stylus to undue shock during the tonearm horizontal balancing.

Tracking-force adjustment

When the tonearm horizontal balance is achieved, a "O-gram" tracking force is applied at the tip of the stylus. To apply the required positive tracking force, you have to move the main weight toward the tonearm support pivot. For detailed tracking force application and adjustment, observe the following procedures.



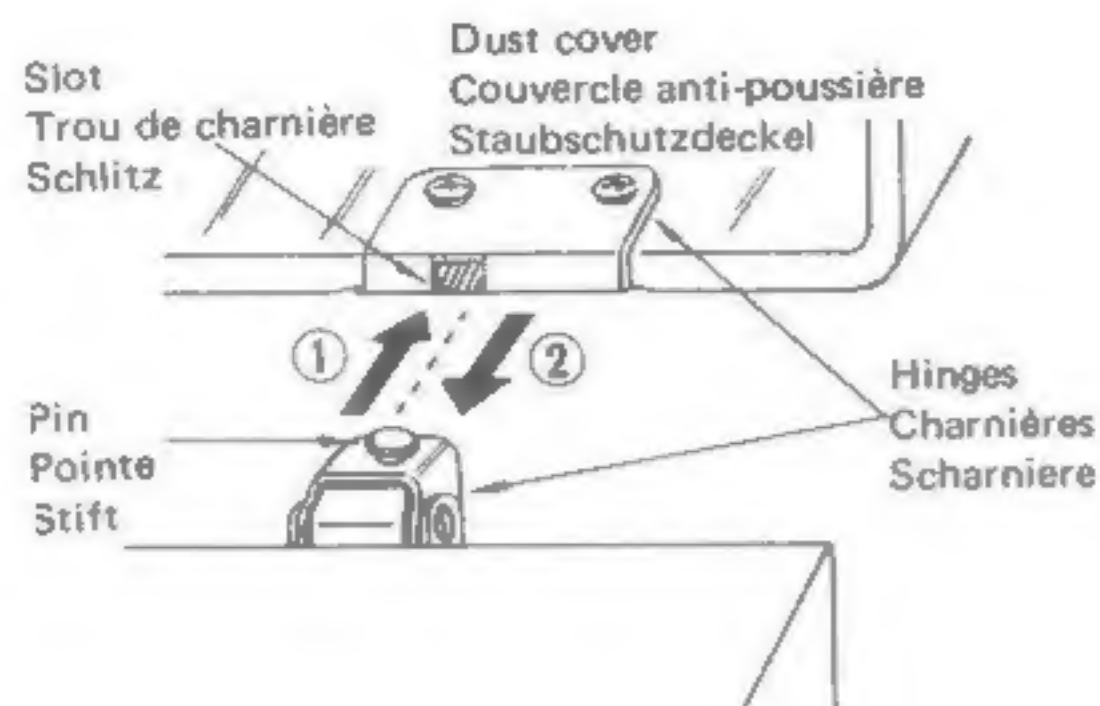
1. The tracking-force dial can freely be turned by hand independently of the main weight. Taking care not to move the main weight, turn the dial to set the "0" calibration on the dial in line with the index on the weight shaft.
 2. Turn the main weight to the right until you obtain the necessary tracking force. Since the tracking force dial turns as the weight is turned, the applied tracking force is indicated by the numerals on the dial above the index line on the weight shaft.
- For the optimum tracking force of a cartridge you use, check its specifications.
 - Optimum tracking force of the cartridge supplied is 2.5 grams; turn the main weight until the numeral or calibration on the dial is "2.5".

Anti-skating device adjustment

Skating force is the natural force, caused by rotation of a record or the platter, which pulls the tonearm toward the center spindle. The anti-skating device is the mechanism to balance this force to prevent excess wear and to assure proper disc reproduction.

To achieve anti-skating device adjustment, simply set the bias knob, so that the figure corresponding to the applied tracking force is in line with the index dot.

- The procedure described above is sufficient for normal uses, though more critical adjustments may be necessary, depending on the condition of record surface. Should you notice significant difference in level and/or tone quality between the left and right channels, play once of the middle bands of a record and adjust the bias knob until the difference is minimized.



Removing and mounting dust cover

To remove the dust cover, pull it in the direction of arrow ① in the illustration. To mount it, align the slot on the cover with the pin on the hinge and push the cover in the direction of arrow ② until it cannot go any farther.

Connections to amplifier

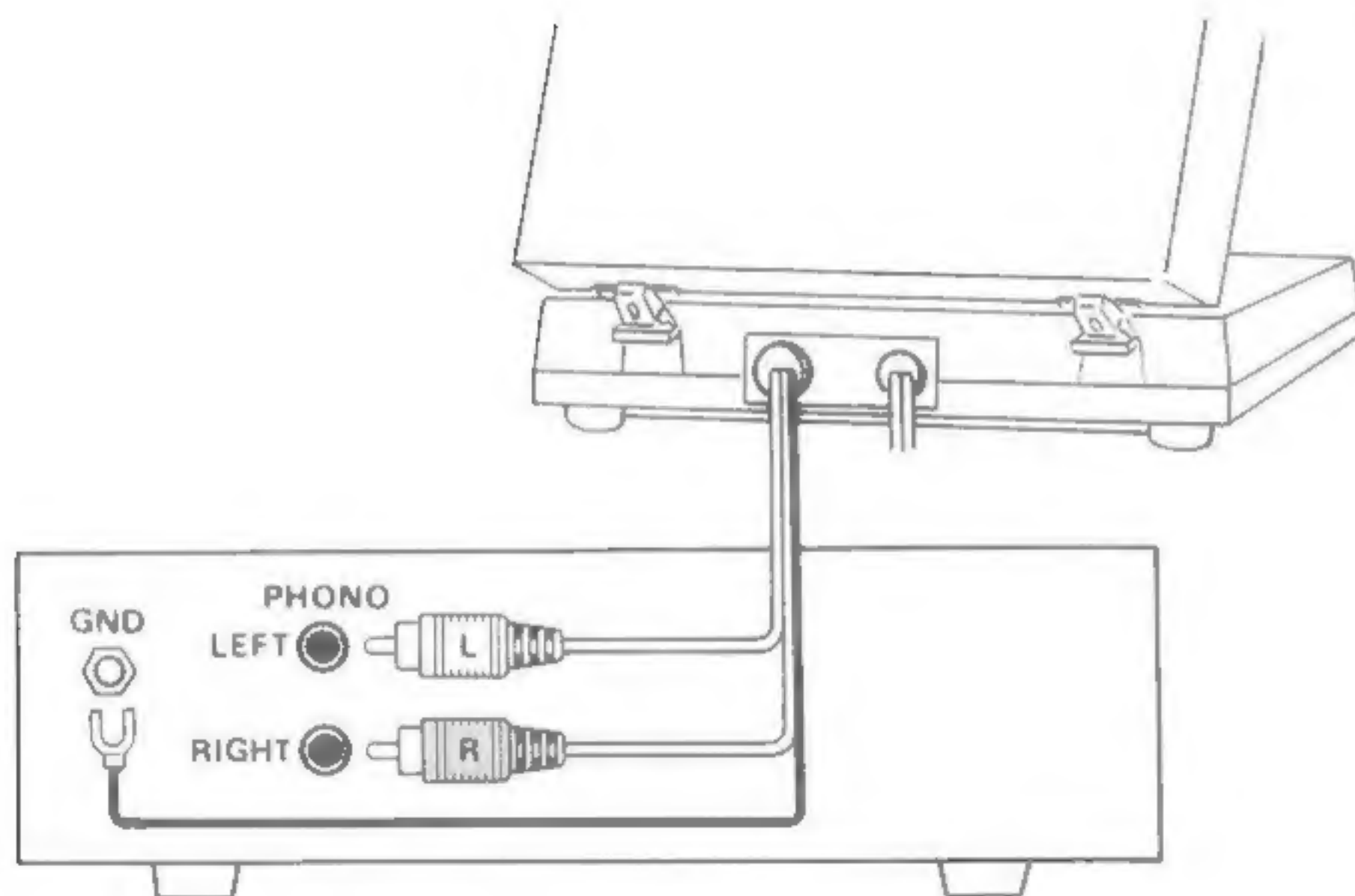
Connect the pin-plug cables of the unit to the PHONO terminals on your amplifier. The red pin plug should be used for the right channel, the white pin plug for the left.

Grounding

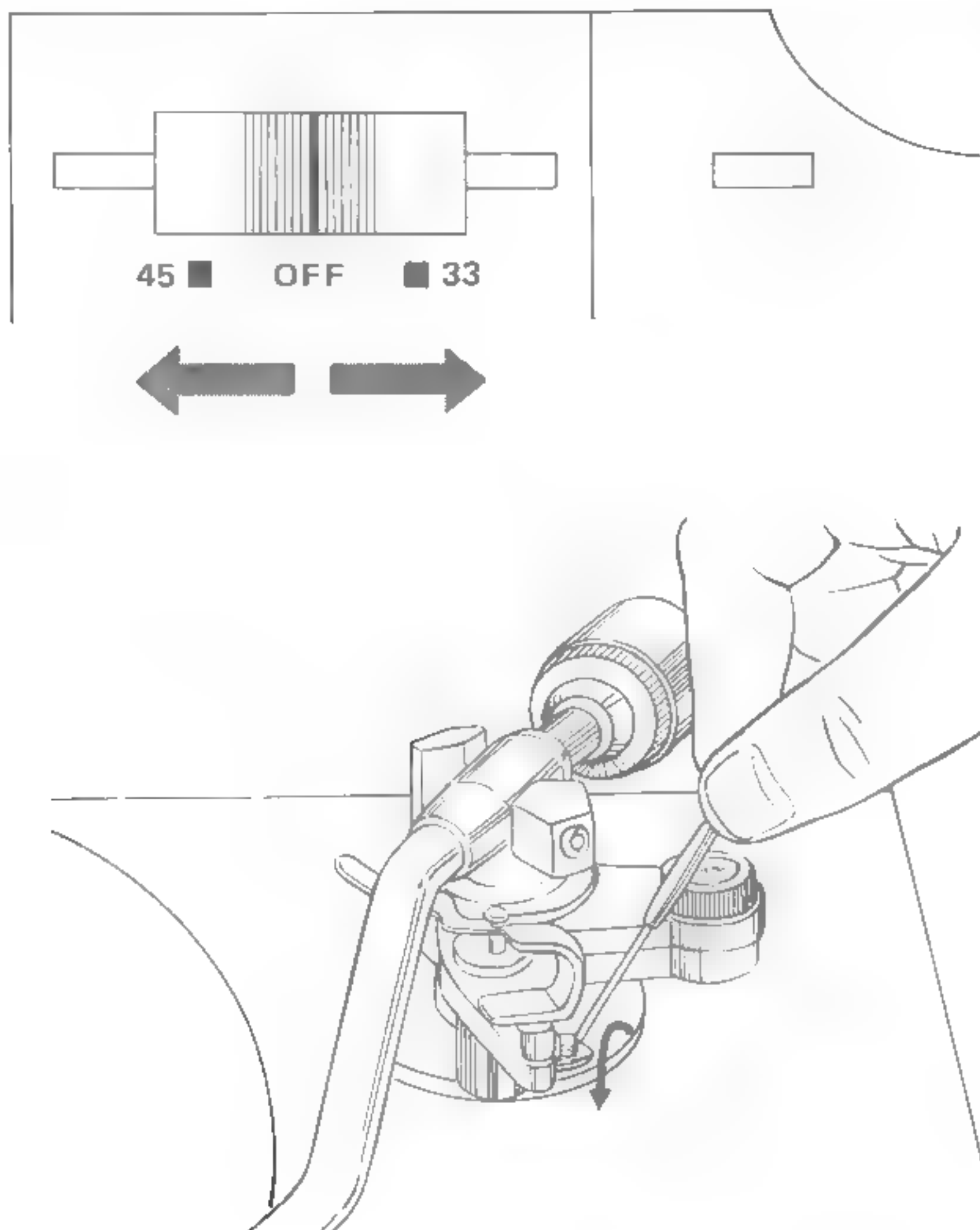
There's a vinyl-coated cable running along the output cables. This is the grounding cable to be used for connection between the "GND" terminals on your turntable and amplifier. Grounding your unit should reduce hum noise. If however the contrary occurs, disconnect the cable.

45rpm record adaptor

Take care not to lose the supplied 45rpm (EP) record adaptor when not in use.



45 rpm record adaptor
Adaptateur de disque à 45 t/mn
Adapter für 45 er Schallplatten



Speed change

Set the speed selector to the position, 33 or 45, depending on the speed of the record you're about to play.

The power indicator will now light up and the platter will start to rotate. When the speed selector is set to the OFF position, the power to the unit will be cut off and the power indicator will go off.

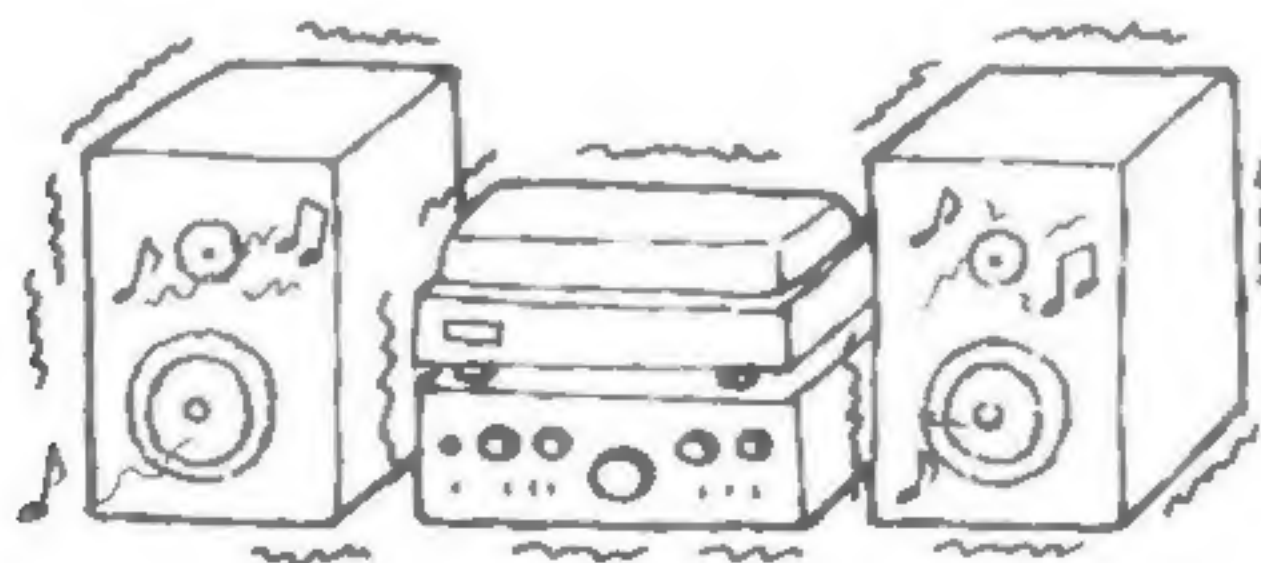
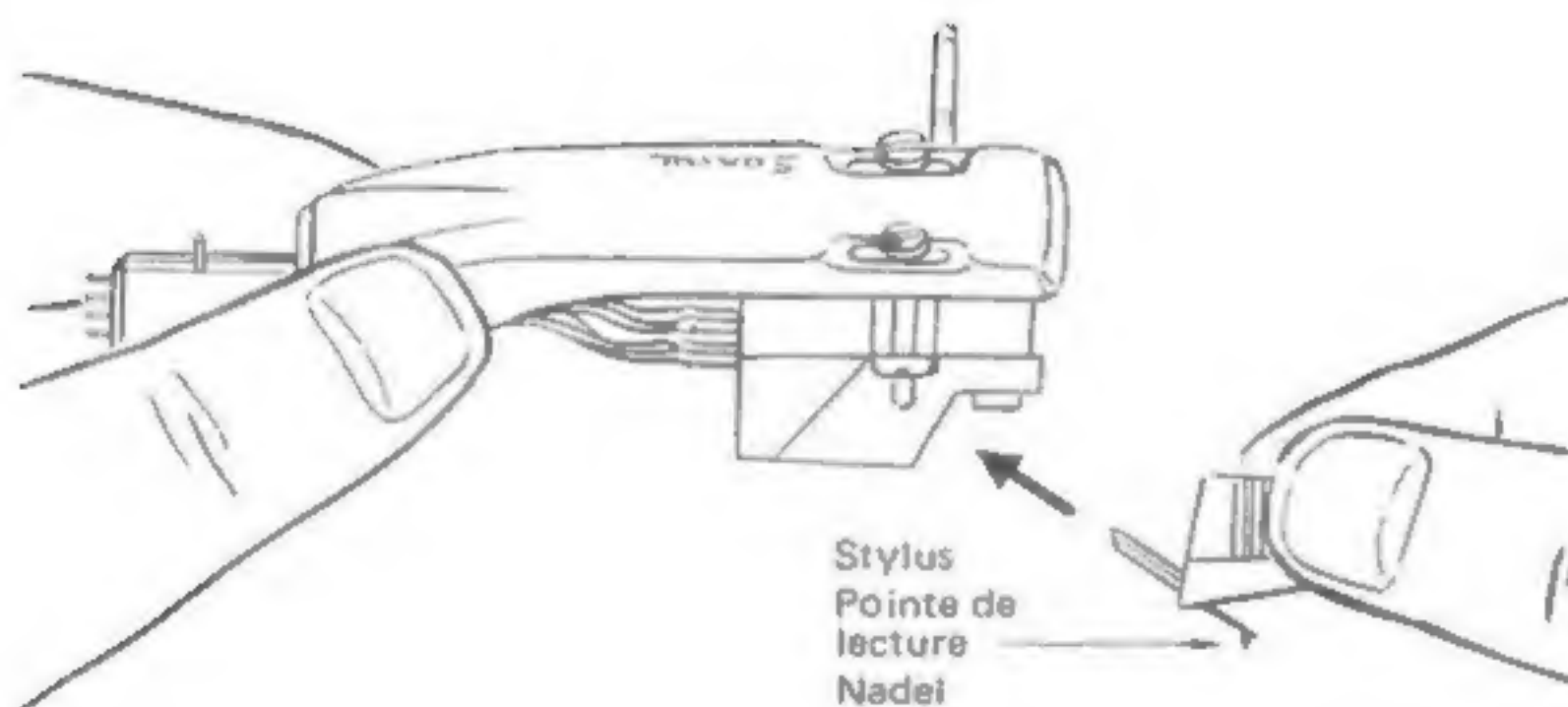
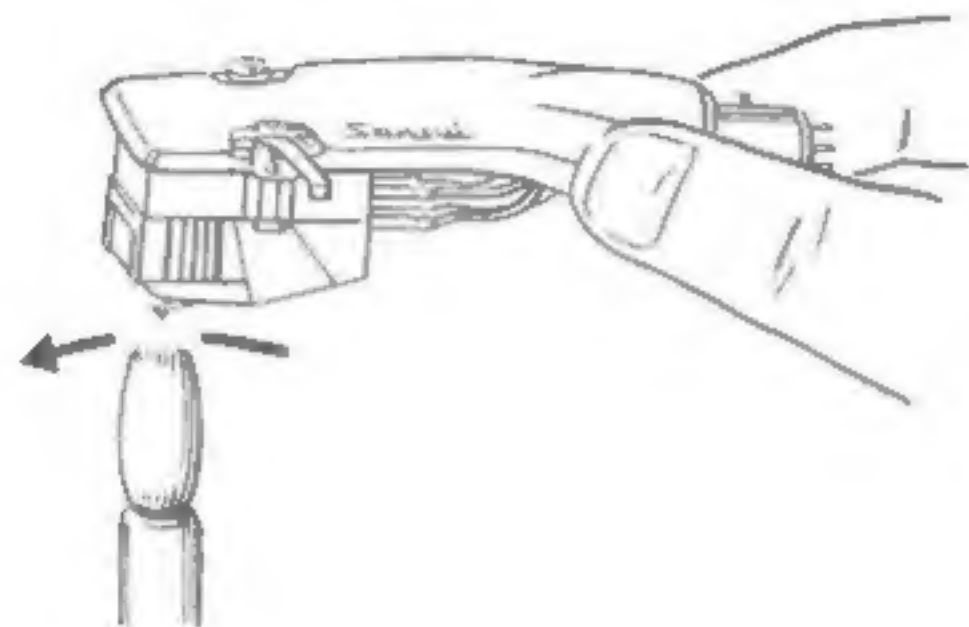
Playing a record

Place the record of your choice on the platter first and then undertake the following operations.

1. Set the speed selector to 33 or 45, depending on the speed of the record you are about to play. Then the platter starts rotating.
2. Remove the tonearm from its rest and move it so that the stylus is directly above the selection on the record you wish to hear.
3. Pull the arm lifter lever gently toward you. Then the tonearm will descend on the platter surface and start play.
4. Adjust the controls on your amplifier or receiver to obtain the tone and volume to your taste.

Stopping record play

To skip a portion in the record on the platter, pull the arm lifter lever, move the tonearm to the portion you want to play and then pull down the arm lifter lever. To stop record play, pull the arm lifter lever up, return the tonearm to its rest and set the speed selector to the OFF position.



Some useful hints

Keep the stylus tip clean

Dust and dirt are the major obstacles to noise-free record reproduction. When grime is allowed to collect in the record groove it will stick to the stylus tip, thus accelerating record and stylus wear and moreover deteriorating the quality of the reproduced sound.

Every time you play a record, use the stylus brush to remove dirt from the stylus tip.

In cleaning the tip, avoid touching it with your finger or subjecting it to shock; such mistreatment may not only shorten its life but may even dislodge the jeweled tip itself.

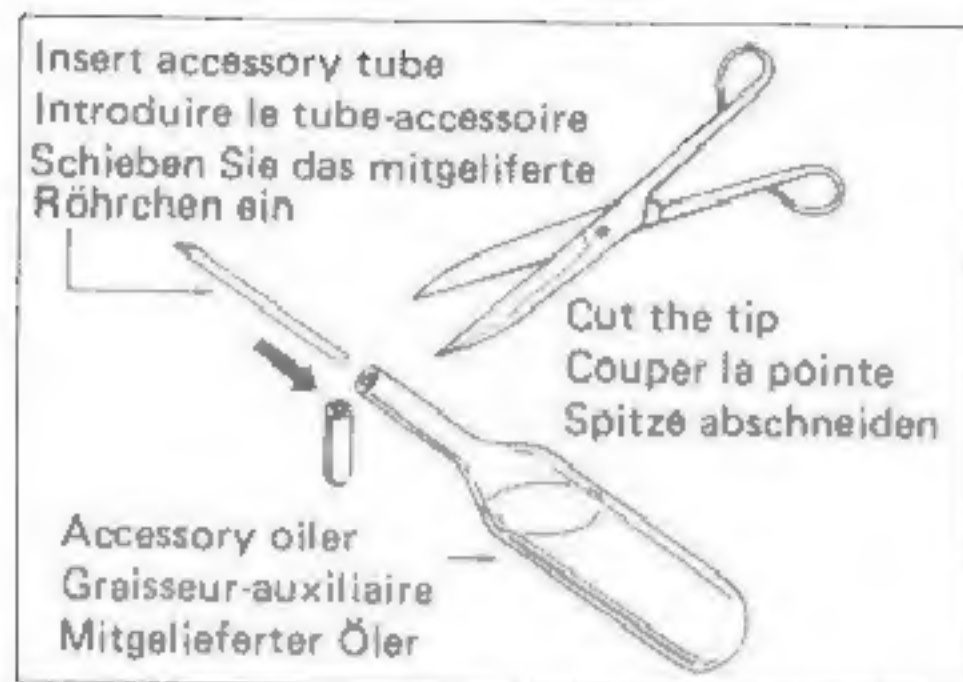
Replacement of styli

A diamond-tipped stylus will usually provide about 500 to 800 hours of high fidelity record playback.

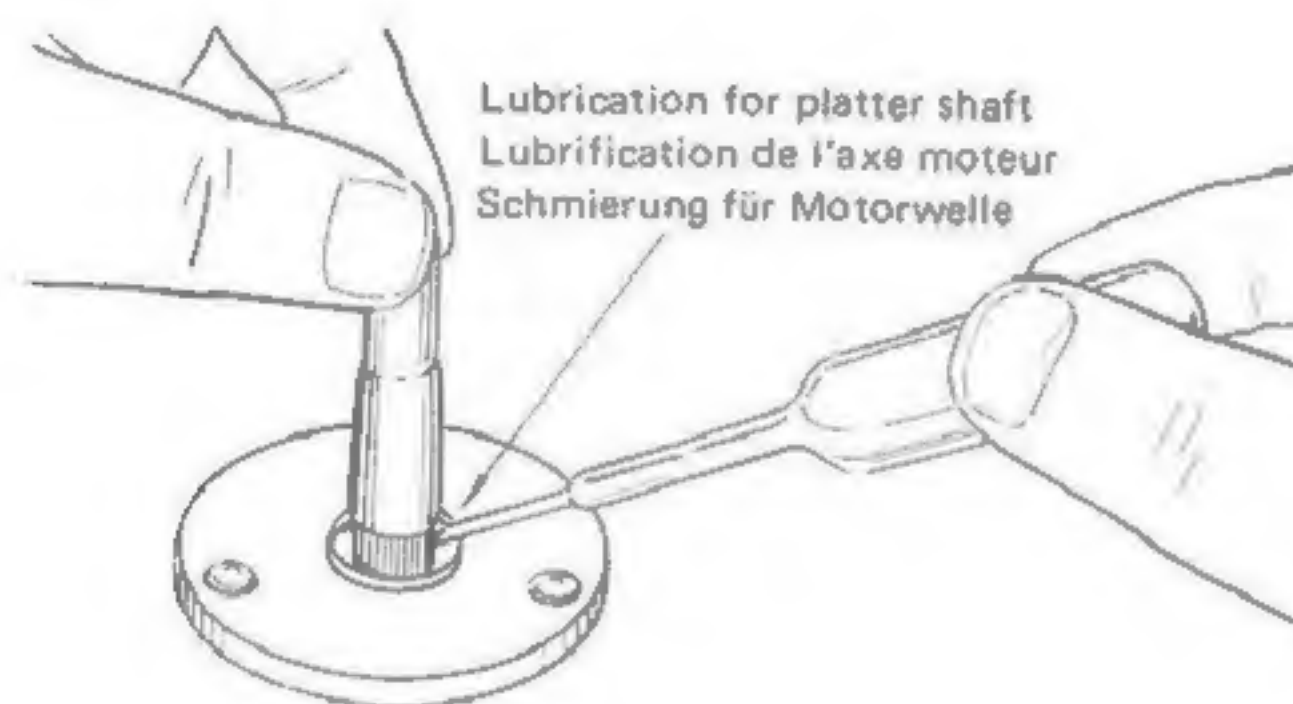
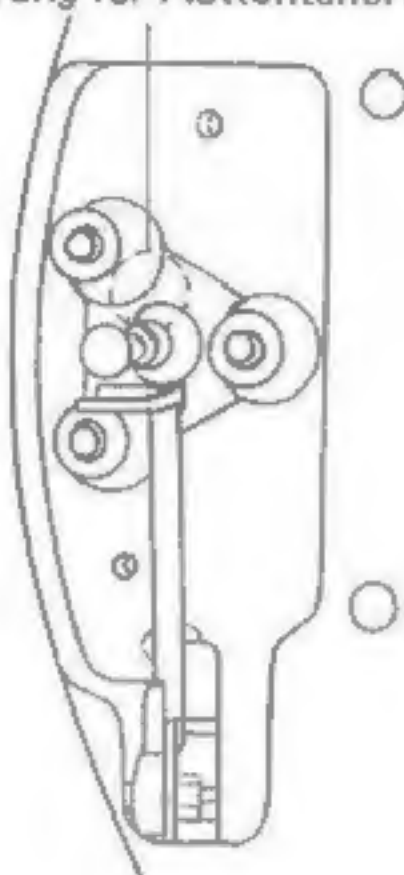
A worn stylus, however, will cause distorted or crackling sound reproduction. You are advised to replace your stylus as frequently as possible.

To avoid howling

When an outside vibration is transmitted to a player in operation, abnormal sounds such as buzzing or shrilling (Howling phenomenon) is generated. Speakers should be separated from the player, and placed in such a location as to avoid transmittal of any vibration.



Lubrication for motor shaft
Lubrification de l'axe du plateau
Schmierung für Plattentellerwelle



Lubrication

Lubrication is necessary once every three months (or after about 200 hours) on the average. Use the oil supplied. To lubricate, remove the platter and the drive belt; pull the platter shaft upward; and apply two or three drops of oil to the shaft and the oil orifice for the motor.

Be careful not to stain the capstan with oil. If so, be sure to remove with a soft cloth moistened with alcohol.

Note:

For lubrication cut the accessory oiler about 10 mm from the tip, insert the accessory tube, and execute lubrication.

Arm lifter descent time

When you use your unit after a long period of disuse, the arm lifter mechanism may tend to lower the tonearm more slowly than usual. This may also occur in periods of temperature change, such as in the changes of seasons. It will correct itself in time, and you may wish to aid the descent of the tonearm with a light touch of your finger unit it does.

Induced hum

Any nearby motor-equipped apparatus such as an electric sewing machine or fan, or a large power transformer may influence your turntable and cause booming hum. If you experience this, move the apparatus in question as far away as possible from the turntable. When placing the turntable next to your amplifier, hum will be reduced if you place it on the side of the amplifier opposite to the side where its transformer is located.

Turntable dismantling

Do not extract the unit's platter shaft or dismantle the motor assembly; NEVER try to touch any part inside the turntable unit. Such action may result in deterioration in performance or in mechanical breakdown.

Specifications

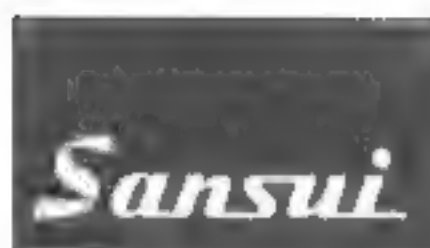
Type	Two-speed belt-driven
Speeds	33-1/3, 45rpm
Platter	Aluminum alloy die-cast 300 mm (11-13/16") diameter
Motor	Four-pole synchronous type
Wow and flutter	0.045 % (W.R.M.S.)
S/N	Better than 54 dB (IEC-B)
Rumble	Better than 68 dB (DIN-B)
Tonearm	Statically-balanced S-shaped tubular type
Tonearm length	220 mm (8-11/16")
Overhang	17.5 mm (3/4")
Applicable cartridge weight	4 to 10 g
Dimensions	452 mm (17-13/16") W 139 mm (5-1/2") H 370 mm (14-5/8") D
Weight	6.0 kg (13.2 lbs) net 7.4 kg (16.3 lbs) packed
Power consumption	10 W

- The power voltage/frequency is adjusted to the one of the area where you bought the unit.

Specifications of the cartridge (applicable only to the units with cartridge)

Cartridge	Induced magnet type (SC-37)
Frequency response	20 ~ 20,000 Hz
Output voltage	3.5 mV per channel (1,000 Hz, 50 mm/sec)
Load impedance	47 k Ω
Tracking force	2.5 g
Stylus	0.5 mil, diamond spherical (SN-37)

- * Design and specifications subject to change without notice for improvements.



SANSUI ELECTRIC CO., LTD.

14-1 Izumi 2-Chome, Suginami-ku, TOKYO 168, JAPAN
TELEPHONE: (03) 323-1111/TELEX. 232-2076